## WHAT IS CLAIMED IS:

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	¥.	A method of making a web of conductive filler, comprising the steps of:
•	placir	ng a web of core material onto an interior surface of a web of conductive
laye	r materia	al; and

turning first and second edges of the conductive layer material upward, folding the first edge of the conductive layer material over the core material, and folding the second edge of the conductive layer material over the first edge of conductive layer material.

- 2. The method according to claim 1, further comprising the step of placing a web of adhesive layer material onto the interior surface of the web of conductive layer material.
- 3. The method according to claim 2 wherein said web of conductive layer includes a substantially non-conductive fiber impregnated with a conductive resin.
- 1 4. The method according to claim 1, further comprising the step of placing 2 a web of adhesive layer material onto the exterior surface of the web of conductive layer 3 material.
  - 5. The method according to claim 1 wherein said web of conductive layer includes a substantially non-conductive fiber impregnated with a conductive resin.
- A method for making a conductive filler material comprising the steps of:
  - selecting a web of conductive layer material; said web of conductive layer material having an interior surface and an exterior surface;
  - positioning a web of non-conducting core material onto said interior surface of said web of conductive layer material;

folding said web of conductive layer material around said web of nonconducting core material, wherein said web of conductive layer material is 8 completely wrapped around said web of non-conducting core material; and 9 pressing said web of non-conducting core material wrapped with said 10 web of conductive layer material by passing through a pair of rollers to form said 11 conductive filler. 12 7. The method according to claim 6, wherein said web of conductive layer 1 material includes a substantially non-conductive fiber impregnated with a conductive C) 3 resin.

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conductive material;

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- 8. The method according to claim 7, wherein said web of conductive layer material is folded around said web of non-conducting core material such that said web of conductive layer material overlaps itself on one side of said web of nonconducting core material, thereby forming a laminated layer of said web of conductive layer material.
- 9. The method according to claim 6, wherein said web of conductive layer material is folded around said web of non-conducting core material such that said web of conductive layer material overlaps itself on one side of said web of nonconducting core material, thereby forming a laminated layer of said web of conductive layer material.
- A method for making a conductive filler material comprising the steps 10. 1 of: 2 selecting a web of conductive material, said web of conductive material 3 having an interior surface and an exterior surface, with said interior surface including 4 a first edge and a second edge; 5 selecting a first adhesive web; 6 selecting a second adhesive web; 7 positioning said first adhesive web on said first edge of said web of 8

positioning said second adhesive web on said second edge of said web of conductive material;

selecting a web of a non-conducting core material;

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positioning said web of non-conducting core material onto said interior surface of said web of conductive material between said first and said second adhesive webs;

folding said web of conductive material with said first and said second adhesive webs thereon around said web of non-conducting core material, wherein said web of conductive material is completely wrapped around said web of non-conducting core material; and

pressing said said web of conductive material with said first and said second adhesive webs thereon folded around said web of non-conducting core material by passing through a pair of rollers to form said conductive filler.

- 11. The method according to claim 10, wherein said web of conductive material includes a substantially non-conductive fiber impregnated with a conductive resin.
- 12. The method according to claim 11, wherein said web of conductive material is folded around said web of non-conducting core such that said web of conductive material overlaps itself on one side of said web of non-conducting core material, and further wherein one of said first and said second adhesive webs is against a top surface of said web of non-conducting core material and the other of said first and said second adhesive webs is against said exterior surface of said web of conductive material, thereby forming a conductive filler having a laminated layer of said conductive material.
- 13. The method for making a conductive filler material of claim 10, wherein said web of conductive material is folded around said web of non-conducting core such that said web of conductive material overlaps itself on one side of said web of non-conducting core, and further wherein one of said first and said second adhesive webs is against a top surface of said web of non-conducting core material and the

other of said first and said second adhesive webs is against said exterior surface of said web of conductive material, thereby forming a conductive filler having a laminated layer of said conductive material.

A method for making a conductive filler material comprising the steps of:

selecting a web of conductive material, said conductive material including a substantially non-conductive fiber impregnated with a conductive resin; said web of conductive material having an interior surface and an exterior surface; selecting a first adhesive web having a first side and a second side, said first side of said first adhesive web having a first release liner, selecting a second adhesive web having a first side and a second side, said first side of said second adhesive web covered by a second release liner;

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positioning said first adhesive web covered by said first release liner on said first edge of said web of conductive material, wherein said second side of said first adhesive web is in contact with said interior surface of said web of conductive material;

positioning said second adhesive web covered by said second release liner on said second edge of said web of conductive material, wherein said second side of said second adhesive web is in contact with said interior surface of said web of conductive material;

pressing to secure said first adhesive web and said second adhesive web to said web of conductive material, wherein said pressing is done by passing said web of conductive material with said adhesive webs thereon through a first pair of rollers;

removing said first release liner from said first adhesive web;
removing said second release liner from said second adhesive web;
selecting a web of non-conducting core material including non-woven
fibers impregnated with a resin;

positioning said web of non-conducting core material onto said interior surface of said web of conductive material between said first and said second adhesive webs;

folding said web of conductive material with said first and said second adhesive webs thereon around said web of non-conducting core material at a forming station by upwardly bending or folding said web of conductive material; and pressing said unfinished filler by passing said unfinished filler through said second pair of rollers, wherein sufficient pressure is applied by said pressing to secure said second side of said outer adhesive web to said center portion of said top surface of said unfinished filler, thereby forming said conductive filler;

- 15. The method for making a conductive filler material of claim 14, wherein said web of conductive material is folded around said web of non-conducting core such that one of said first and said second adhesive webs is against a surface of said web of non-conducting core material and the other of said first and said second adhesive webs is against said exterior surface of said web of conductive material, said bending or folding forming a laminated layer of said web of conductive material, wherein said web of conductive material is completely wrapped around said web of non-conducting core material, thereby forming an unfinished filler having said laminated layer of said conductive material resulting in a conductive filler having said laminated layer of said conductive material.
- 16. The method according to claim 14, further comprising the steps of:
  selecting an outer adhesive web having a first side and a second side,
  said first side of said outer adhesive web covered by an outer release liner; and
  directing said outer adhesive web with said outer release liner onto a
  center portion of said top surface of said unfinished filler, and then completing the
  step directing said unfinished filler toward said second pair of rollers.
- 1 The method for making a conductive filler material of claim 15, wherein said web of conductive material is folded around said web of non-conducting core such that one of said first and said second adhesive webs is against a top surface of said web of non-conducting core material and the other of said first and said second adhesive webs is against said exterior surface of said web of conductive material, said bending or folding forming a laminated layer of said web of conductive material,

wherein said web of conductive material is completely wrapped around said web of non-conducting core material, thereby forming an unfinished filler with a top surface having with said laminated layer of said conductive material resulting in a conductive filler with a top surface having said laminated layer of said conductive material.

18. A method for making a conductive filler material comprising the steps of:

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Feeding a web of conductive layer from a roll of said web of conductive layer at a first unwind station, said conductive layer including a substantially non-conductive fiber impregnated with a conductive resin; said web of conductive layer having an interior surface and an exterior surface, with said interior surface including a first edge and a second edge;

directing said web of conductive layer to a second unwind station having a first and a second roll of adhesive material, wherein said first roll of adhesive material includes a first adhesive web having a first side and a second side, said first side of said first adhesive web covered by a first release liner, and further wherein said second roll of adhesive material includes a second adhesive web having a first side and a second side, said first side of said second adhesive web covered by a second release liner;

unwinding and positioning said first adhesive web covered by said first release liner on said first edge of said web of conductive layer, wherein said second side of said first adhesive web is in contact with said interior surface of said web of conductive layer;

unwinding and positioning said second adhesive web covered by said second release liner on said second edge of said web of conductive layer, wherein said second side of said second adhesive web is in contact with said interior surface of said web of conductive layer;

directing said web of conductive layer with both said first adhesive web with said first release liner and said second adhesive web with said second release liner thereon toward a first pair of rollers;

pressing to secure said first adhesive web and said second adhesive web to said web of conductive layer, wherein said pressing is done by passing said

web of conductive layer with said adhesive webs thereon through said first pair of rollers:

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removing said first release liner from said first adhesive web by using a first liner collector:

removing said second release liner from said second adhesive web by using one of said first liner collector and a second liner collector;

directing said web of conductive material with both said first and said second adhesive webs thereon to a third unwind station containing a roll of a web of a non-conducting core material, said web of non-conducting core material including non-woven fibers impregnated with a resin;

feeding and positioning said web of non-conducting core material onto said interior surface of said web of conductive layer between said first and said second adhesive webs;

directing said web of conductive material with both said first and said second adhesive webs thereon and also with said web of non-conducting core material thereon, to a forming station;

folding said web of conductive material with said first and said second adhesive webs thereon around said web of non-conducting core material by upwardly bending or folding said web of conductive material, wherein one of said first and said second adhesive webs is against a top surface of said web of non-conducting core material and the other of said first and said second adhesive webs is against said exterior surface of said web of conductive layer, said bending or folding forming a laminated layer of said web of conductive layer, wherein said web of conductive layer is completely wrapped around said web of non-conducting core material, thereby forming an unfinished filler with a top surface having said laminated layer of said conductive layer;

directing said unfinished filler toward a second pair of rollers; and pressing said unfinished filler by passing said unfinished filler through said second pair of rollers, wherein sufficient pressure is applied by said pressing to secure said second side of said outer adhesive web to said center portion of said top surface of said unfinished filler, thereby forming said conductive filler;

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19.	The method according to claim 18, further comprising the steps of:				
	before directing said unfinished filler toward said second pair of rollers				
directing said unfinished filler material toward a fourth unwind station containing a					
third roll of adhesive material containing an outer adhesive web having a first side					
and a second side, said first side of said outer adhesive web covered by an outer					
release liner; and					

unwinding and directing said outer adhesive web with said outer release liner onto a center portion of said top surface of said unfinished filler, and then completing the step directing said unfinished filler toward said second pair of rollers.

- 20. The method according to claim 19, further comprising the steps of: directing said conductive filler toward a rewind station; and winding said conductive filler onto a rewind roll using said rewind station, wherein said conductive filler can then be packaged and shipped to a destination.
- 21. A method for making a conductive bar comprising the steps of: selecting a web of conductive material, said conductive material including a substantially non-conductive fiber impregnated with a conductive resin; said web of conductive material having an interior surface and an exterior surface, said interior surface including a first edge and a second edge;

selecting a first adhesive web having a first side and a second side, said first side of said first adhesive web covered by a first release liner;

selecting a second adhesive web having a first side and a second side, said first side of said second adhesive web covered by a second release liner;

positioning said first adhesive web covered by said first release liner on said first edge of said web of conductive material, wherein said second side of said first adhesive web is in contact with said interior surface of said web of conductive material;

positioning said second adhesive web covered by said second release liner on said second edge of said web of conductive material, wherein said second

side of said second adhesive web is in contact with said interior surface of said web of conductive material;

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pressing to secure said first adhesive web and said second adhesive web to said web of conductive material, wherein said pressing is done by passing said web of conductive material with said adhesive webs thereon through a first pair of rollers:

removing said first release liner from said first adhesive web;
removing said second release liner from said second adhesive web;
selecting a web of a non-conducting core material, said web of nonconducting core material including non-woven fibers impregnated with a resin;
positioning said web of non-conducting core material onto said interior

surface of said web of conductive material between said first and said second adhesive webs;

folding said web of conductive material with both said first and said second adhesive webs thereon around said web of non-conducting core material at a forming station by upwardly bending or folding said web of conductive material, wherein one of said first and said second adhesive webs is against a surface of said web of non-conducting core material and the other of said first and said second adhesive webs is against said exterior surface of said web of conductive material, said bending or folding forming a laminated layer of said web of conductive material, wherein said web of conductive material is completely wrapped around said web of non-conducting core material, thereby forming an unfinished filler having said laminated layer of said conductive material;

selecting an outer adhesive web having a first side and a second side, said first side of said outer adhesive web covered by an outer release liner;

directing said outer adhesive web with said outer release liner onto a center portion of said top surface of said unfinished filler;

pressing said unfinished filler by passing said unfinished filler through a second pair of rollers, wherein sufficient pressure is applied by said pressing to secure said second side of said outer adhesive web to said center portion of said top surface of said unfinished filler, thereby forming said conductive filler;

47		placing said conductive filler at a top and a bottom of a stack of	
48	windings;		
49		wrapping an insulating groundwall around said conductive filler with	
50	said stack of	windings; and	
51		forming said conductive bar by sealing said insulating groundwall.	
1	22.	A forming station for making a web of conductive filler, the conductive	
2	filler having a web of conductive material material wrapped around a web of core		
± 3	material, comprising:		
± 3		a die having a U-shaped passageway through which the web of the	
5	conductive layer material and the web of core material are passed, the die turning		
6	first and second edges of the conductive layer material upward;		
7		a first barrier, the first barrier folding the first edge of conductive layer	
. 8	material on top of the core material; and		
9		a second barrier, the second barrier folding the second edge of	
	conductive layer material on top of the core material.		
	23. T	the forming station according to claim 22 wherein said web of	

conductive layer material includes a substantially non-conductive fiber impregnated

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with a conductive resin.